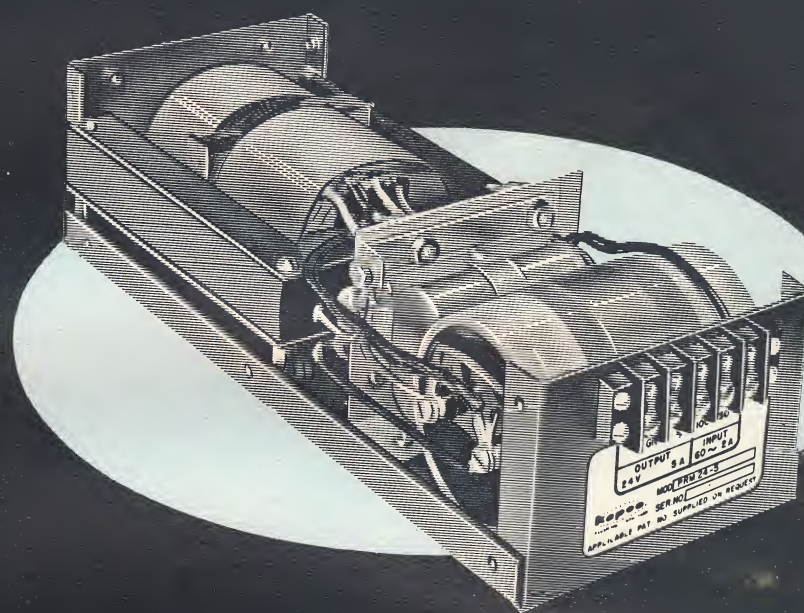
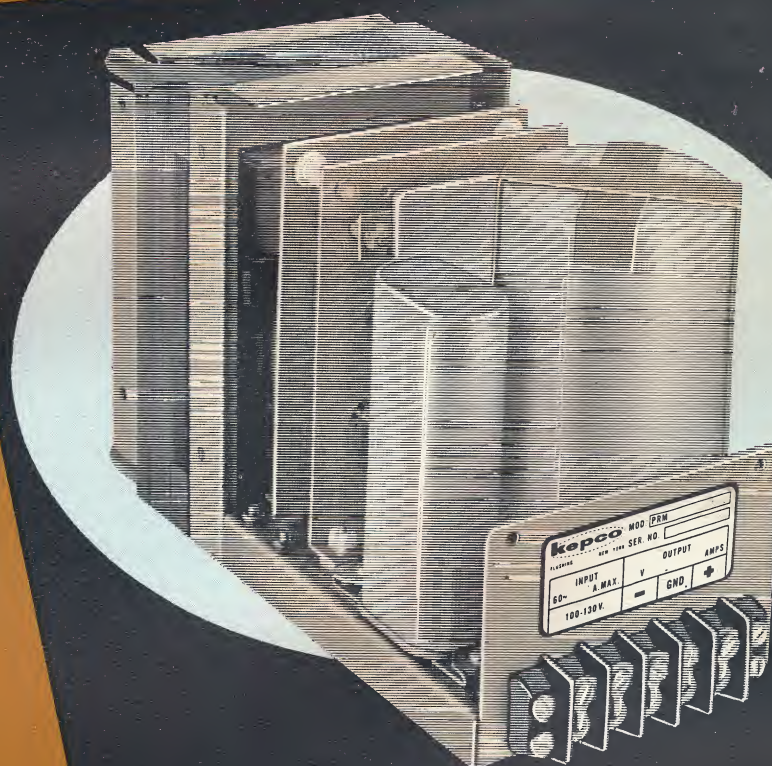


#146-1109



KEPCO POWER MODULES



FIXED OUTPUT



REGULATED DC SUPPLY

GROUP



SOLID STATE



MODULAR GROUP

- more DC output watts per dollar, per pound, per cubic inch
- highly reliable, maintenance-free operation assured by good design and basic simplicity
- fixed DC output voltages

±1% LINE REGULATION

MODEL	DC OUTPUT VOLTS	DC OUTPUT AMPS	LOAD REGULATION*		RIPPLE (MAX) RMS VOLTS	SIZE	SERIES
			100% to 50% LOAD	100% to 25% LOAD			
PRM 6-15	6.3	0-15	0.5	0.7	0.4	B	120
PRM 6-25	6.3	0-25	0.4	0.6	0.4	A	180
PRM 12-10	12	0-10	0.6	1.0	0.4	B	120
PRM 12-15	12	0-15	0.4	0.8	0.4	A	180
PRM 18-6.7	18	0-6.7	0.8	1.3	0.3	B	120
PRM 18-10	18	0-10	0.5	0.9	0.3	A	180
PRM 24-5	24	0-5	1.0	1.7	0.3	B	120
PRM 24-8	24	0-8	0.5	0.9	0.3	A	180
PRM 28-4.3	28	0-4.3	1.2	2.0	0.3	B	120
PRM 28-7	28	0-7	0.5	0.9	0.4	A	180
PRM 36-3.3	36	0-3.3	1.5	2.4	0.3	B	120
PRM 36-5	36	0-5	0.8	1.3	0.4	A	180
PRM 48-2.5	48	0-2.5	1.8	3.1	0.3	B	120
PRM 48-4	48	0-4	1.0	1.8	0.3	A	180
PRM 60-2	60	0-2	2.3	3.8	0.3	B	120
PRM 60-3	60	0-3	1.0	1.8	0.3	A	180
PRM 120-1	120	0-1	4.3	7.3	0.3	B	120
PRM 120-1.5	120	0-1.5	2.2	3.6	0.3	A	180

FIGURE 1

* Measured at 115V AC Line

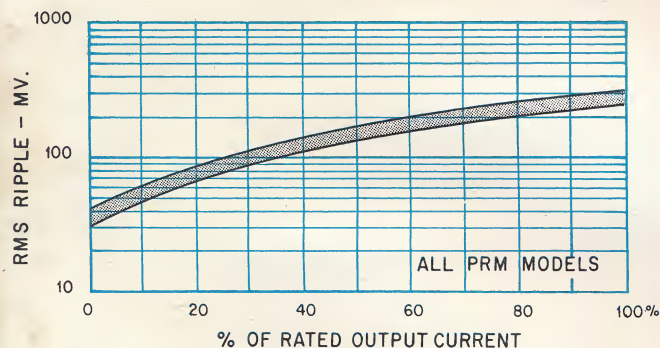
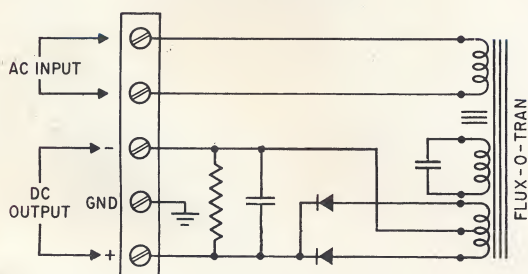


FIGURE 2 TYPICAL RIPPLE FOR PRM UNITS AS A FUNCTION OF LOAD



SPECIFICATIONS, General

REGULATION: LINE: Less than $\pm 1\%$ output voltage change for $115 \pm 15V$ AC line variation at loads greater than 25% of rating. Below 25% load, the output voltage change is less than $\pm 1.5\%$.

LOAD: See Figure 1 for maximum specification. See Figure 3 for typical load regulation curves.

ACCURACY: $\pm 2\%$ of specified output voltage at nominal line, full load and $30^\circ C$ ambient temperature.

STABILITY: Output varies less than 1% or 0.1V whichever is greater over a period of 8 hours after warmup. Measured at constant line voltage, load and ambient temperature.

TEMPERATURE COEFFICIENT: Output voltage changes less than 0.05% per $^\circ C$.

RIPPLE: For maximum ripple at maximum rated output voltage and current, see Figure 1. For typical ripple values at reduced output currents see Figure 2.

AMBIENT OPERATING TEMPERATURE: $-20^\circ C$ to $+55^\circ C$ maximum.

STORAGE TEMPERATURE: $-40^\circ C$ to $+85^\circ C$ maximum.

OUTPUT IMPEDANCE: Same for all models: 1 ke to 10 ke less than 0.05 ohms; 10 ke to 100 ke less than 0.05 ohms plus 0.5 uH effective series inductance. Below 1000 cps, impedance is a function of load current and is determined by reference to the load regulation curve. Impedance is the slope of the curve $\Delta E / \Delta I$.

INPUT REQUIREMENTS: $115V \pm 15V$ AC, 60 cps $\pm 5\%$. Input current is approximately 3 amperes (280 watts) for the "A" style PRM supplies, approximately 2 amperes (190 watts) for the "B" style units. External fusing is required.

For models to operate at $104 \pm 11.5V$ AC; $115 \pm 15V$ AC; $208 \pm 23V$ AC or $230 \pm 30V$ AC, 50 cps $\pm 5\%$, add suffix "-50" to model number and derate output current by 20%.

Note: % changes in line frequency produce approximately equal % changes in output voltage linearly within stated input frequency tolerances.

SPECIFICATIONS, Performance

CONSTANT VOLTAGE TRANSFORMER: Flux-O-Tran power transformer delivers regulated square wave voltage to rectifiers, improving rectifier and capacitor utilization and reducing output ripple.

OVERLOAD PROTECTION: Special Flux-O-Tran power transformer allows output to be shorted without adverse effect.

SILICON RECTIFIERS: Reliable, efficient, full wave rectification.

CAPACITIVE FILTER: Capacitive filtering provides excellent ripple reduction and minimizes transients.

CONVECTION COOLING: Heat removal is by natural convection.

ISOLATION VOLTAGE: A maximum of 600 volts can be connected between the chassis and either output terminal.

PARALLEL OPERATION: Supplies of the same model numbers can be paralleled for increased current.

SERIES OPERATION: Supplies can be series connected for increased voltage.

SPECIFICATIONS, Physical

TERMINALS AND CONTROLS: *On Rear of Chassis:* Barrier strip terminals provide for AC input, DC output and ground connections. Output terminals are isolated from ground and either positive or negative output may be grounded.

DIMENSIONS:

Size A: *Uncased:* $6\frac{3}{4}"$ H x $4\frac{3}{4}"$ W x $10\frac{3}{8}"$ D

Cased: $6\frac{15}{16}"$ H x $5"$ W x $10\frac{7}{16}"$ D

Size B: *Cased only:* $3\frac{13}{32}"$ H x $5"$ W x $13\frac{13}{16}"$ D

STANDARD FINISH: CASES: Blue finished aluminum, (special finishes to order). "A" units chassis: cadmium plated, cronak wash.

ACCESSORIES: "A" units available with or without case, to specify cased unit, add suffix "C" to the model number eg: PRM 24-8C. Case includes wraparound, end plate and 4 removable feet for bench use.

RACK ADAPTERS: For 180 Series:

RA 8-2 ($5\frac{1}{4}"$ H x $19"$ W) for (2) A size PRM modules.

RA 9-3 ($7"$ H x $19"$ W) for (3) A size PRM modules.

RA 10-1 ($5\frac{1}{4}"$ H x $19"$ W) for (1) A size PRM module.

RA 18-1 ($5\frac{1}{4}"$ H x $19"$ W) for (1) Extra Filtered module.

For 120 Series:

RA 14-3 ($3\frac{1}{2}"$ H x $19"$ W) for (3) B size PRM modules.

RA 15-1 ($3\frac{1}{2}"$ H x $19"$ W) for (1) B size PRM module.

RA 16-4 ($5\frac{1}{4}"$ H x $19"$ W) for (4) B size PRM modules.

RA 17-5 ($5\frac{1}{4}"$ H x $19"$ W) for (5) B size PRM modules.

Finish: Frosty etch, clear epoxy coating. (special finishes to order).

CUSTOM OPTIONS: Special models available with custom ratings. Contact your nearest Kepco sales engineer with your special requirements.

Extra Filtered Models: Units in the 180 series (Size A only) can be ordered with extra filtering by appending the suffix "F" to the model number. The added filter is an extra LC section which reduces ripple more than 10:1. The added choke introduces a 2% drop in the nominal voltage rating at full load. Alternatively, at the user's option, the nominal voltage is restored by a 10% reduction in output current. Size is increased to $14\frac{3}{8}"$ in the longest dimension (uncased), $14\frac{7}{16}"$ cased. The end dimensions remain $6\frac{3}{4}"$ H x $4\frac{3}{4}"$ W, uncased, $6\frac{15}{16}"$ H x $5"$ W, cased.

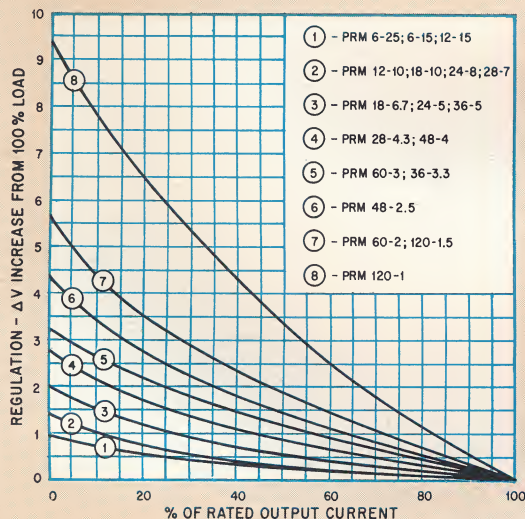


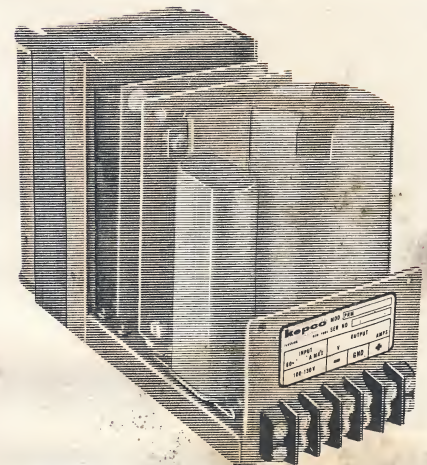
FIGURE 3 TYPICAL LOAD REGULATION FOR PRM UNITS

All models are designed for continuous operation without de-rating under all specified line, load and temperature conditions.

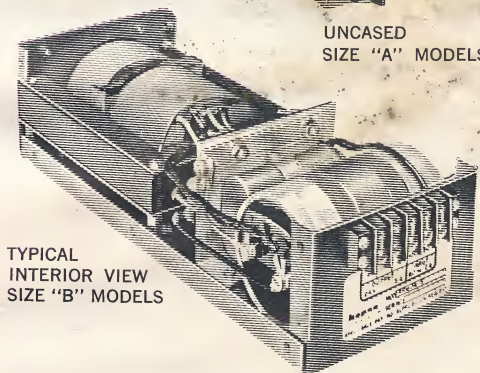


SOLID STATE

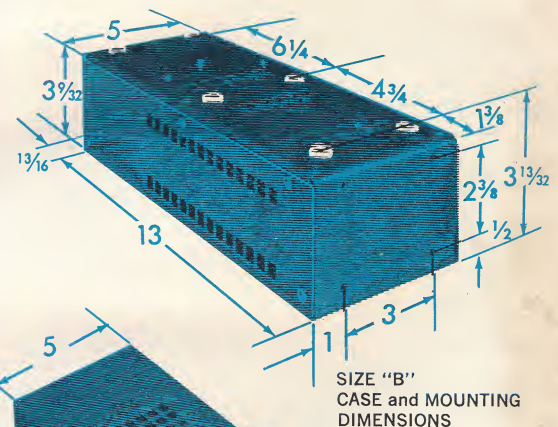
kepco
PRM
 REGULATED DC SUPPLY
MODULAR GROUP



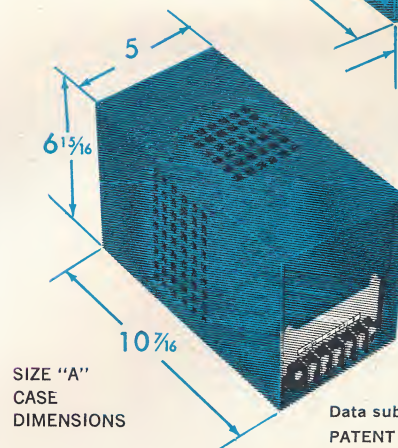
UNCASED
SIZE "A" MODELS



TYPICAL
INTERIOR VIEW
SIZE "B" MODELS



SIZE "B"
CASE and MOUNTING
DIMENSIONS



SIZE "A"
CASE
DIMENSIONS

Data subject to change without notice
 PATENT NOTICE: Applicable Patent Nos.
 will be supplied on request.



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LEE ASSOCIATES, INC.
P.O. Box 7896, Orlando, Fla. 32804
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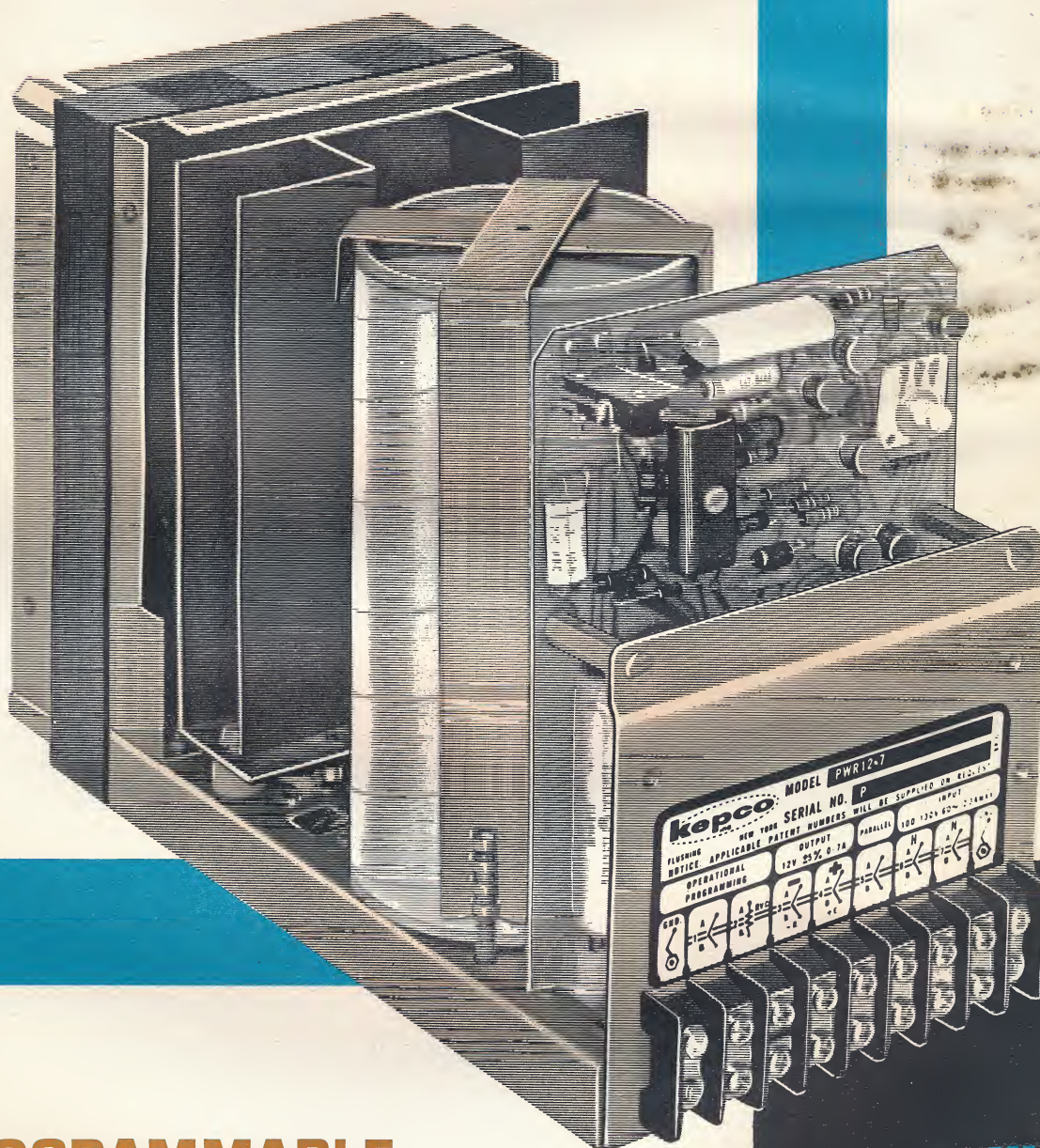
13 HUNTSVILLE, ALABAMA
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(205) 881-0461 — TWX #205-533-2066

14 CINCINNATI, OHIO
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LITHO IN U.S.A.

#146-1108

KEPCO POWER MODULES



**PROGRAMMABLE
PRECISION REGULATED**



GROUP

kepco**MODULAR GROUP**

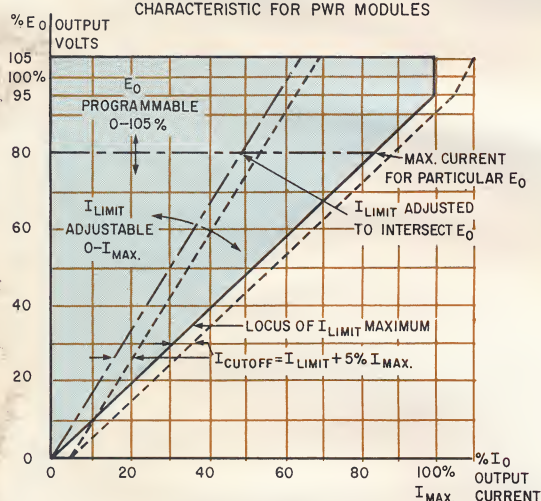
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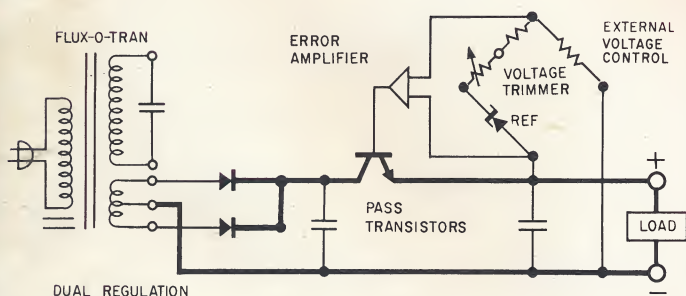
- all silicon design
- modular packaging
- unique current cut-off protects load
- precision regulation
- full range programming

REGULATION**0.005% LINE - 0.05% LOAD**

MODEL	DC OUTPUT VOLTS AMPS		OUTPUT IMPEDANCE OHMS MAX		
			DC to 100 cps	100 cps to 1 kc	1 kc to 100 kc + μ h
PWR 12-7	0-12	0-7	0.001	0.005	0.1 + 0.5 μ h
PWR 15-6	0-15	0-6	0.002	0.005	0.1 + 0.5 μ h
PWR 24-4	0-24	0-4	0.003	0.005	0.05 + 0.5 μ h
PWR 28-3.3	0-28	0-3.3	0.004	0.005	0.05 + 0.5 μ h
PWR 48-2	0-48	0-2	0.015	0.005	0.05 + 0.5 μ h
PWR 60-1.5	0-60	0-1.5	0.02	0.005	0.05 + 0.5 μ h

OPERATING REGION AND OVERLOAD
CHARACTERISTIC FOR PWR MODULES

I_{LIMIT} IS THE MAXIMUM OPERATING CURRENT FOR ANY SELECTED CUTOFF CURRENT. I_{LIMIT} IS APPROXIMATELY EQUAL TO I_{CUTOFF} MINUS 5% I_{MAX} .



All models are designed for continuous operation without de-rating under all specified line, load and temperature conditions.

SPECIFICATIONS, Voltage Regulation Mode

REGULATION: *Line:* Less than 0.005% output voltage change for 100-130V AC variation.

Load: Less than 0.05% or 1 mv output voltage change, whichever is greater, for output current changes from no load to the current limit locus.

STABILITY: Output voltage varies less than 0.05% or 3 millivolts, whichever is greater, over a period of 8 hours after warmup. Measured at constant line voltage, load and ambient temperature. (See "Controls").

TEMPERATURE COEFFICIENT: Output voltage changes less than 0.05% per °C. (See "Controls").

RIPPLE: Less than 0.25 mv rms.

RECOVERY TIME: 50 microseconds.

OUTPUT IMPEDANCE: Specified for each model within the load frequency range shown in the table. Above 10 kc include the reactive impedance of the effective series inductance as indicated.

SPECIFICATIONS, Current Regulation Mode**External Sensing**

OUTPUT RANGE: Current regulation from 1 ma to 100% of the maximum rated current.

COMPLIANCE: Voltage compliance is from the intercept of the I_{LIMIT} locus to 105% of the rated maximum output voltage. For any selected current value, the compliance is the portion of the current line lying within the shaded portion of the operating region plot. The output voltage automatically varies throughout this region as required to regulate current through a variable load. For loads which require compliance outside of the operating region (below the limit locus), the current cut-off characteristic controls the output.

REGULATION: *Line:* For 100-130V AC line variations, output current changes less than 0.05% when the specified voltage sample is maintained across the external sensing resistor.

Load: For the maximum change in load resistance, within the rated compliance range, output current changes less than 0.1% when the specified voltage sample is maintained across the external sensing resistor.

The sensing resistor is chosen to produce a 1 volt drop at the maximum operating current. A separate control is used externally to provide high resolution current adjustability.

STABILITY: Output current varies less than 0.1% or 1 ma, whichever is greater, over a period of 8 hours after warmup. Measured at constant line voltage, load and ambient temperature.

TEMPERATURE COEFFICIENT: Output current changes less than 0.1% per °C.

RIPPLE: Less than 0.1% of maximum current, rms.

INPUT REQUIREMENTS: 100-130V AC, 60 cps ± 1 cps single phase. Input current approximately 2 amperes, 200 watts. For models to operate at 104 ± 11.5 V AC; 115 ± 15 V AC; 208 ± 23 V AC or 230 ± 30 V AC, 50 cps ± 1 cps, add suffix "-50" to model number and derate output current by 20%.

AMBIENT OPERATING TEMPERATURE:

Uncased: -20°C to +65°C maximum

Cased: -20°C to +55°C maximum

STORAGE TEMPERATURE: -40°C to +85°C

ISOLATION VOLTAGE: A maximum of 500 volts can be connected between the chassis and either output terminal.

SPECIFICATIONS, Performance

CONTROLS: PWR Modules are supplied with a built-in $\pm 5\%$ trimmer adjustment which operates for voltage or current

control. The main output control is exercised by means of external resistances which may be fixed, stepped or variable. A fixed 1% resistor, selected to program the rated output voltage is supplied with each module. Stability and temperature coefficient criteria require the use of high quality LTC, 20PPM wire-wound elements for programming.

PROGRAMMING: Terminals provide for resistive programming of voltage or current at approximately 1000 ohms per volt. Programming terminals are also provided for programming by means of remotely located voltage or current signals. Output current derates linearly with voltage (see operating region characteristic). The current cutoff setting automatically tracks the voltage to provide proportionally constant overload protection.

OVERLOAD PROTECTION: The cutoff current limit is adjustable from approximately 5% to 105% of the rated output current. When overloaded, output current reduces along the cutoff line to approximately 5% of the rated maximum into a short circuit. Cutoff should be set to exceed the maximum expected operating current (I_{LIMIT}) by an amount equal to 5% of the maximum current rating of the power supply.

The negative resistance character of the cutoff locus may cause severely non-linear loads (requiring large starting surge currents) to "lock out" for certain settings of the cutoff current limit. For such loads, a series starting resistance can be used to limit the starting surge so that operation can be contained within the shaded region of the graph. Some examples of non-linear loads are: high intensity filament lamps and motors.

REMOTE ERROR SENSING: Error sensing terminals enable specified voltage regulation to be maintained directly at the load by compensating for voltage drops up to 0.5 volts across each load supply lead.

SERIES/PARALLEL OPERATION: Connections provided for series/parallel operation of identical units using master/slave configurations.

CONVECTION COOLING: Heat removal is by natural convection.

OVERSHOOT: No output voltage overshoot from turn-on, turn-off or power failure for output settings above 25% of maximum rated voltage. Below 25%, output overshoot is a function of load and is negligible for loads in excess of 10%.

SPECIFICATIONS, Physical

TERMINALS AND CONTROLS: *On Rear of Chassis:* Barrier strip terminals provide for AC input, DC output, remote error sensing, programming and ground terminals. Output terminals are isolated from ground, either positive or negative output may be grounded.

DIMENSIONS: *Uncased:* $6\frac{3}{4}"$ H x $4\frac{3}{4}"$ W x $10\frac{3}{8}"$ D
Cased: $6\frac{15}{16}"$ H x $5"$ W x $10\frac{7}{16}"$ D

STANDARD FINISH: *Chassis:* cadmium plated, cronak wash.
Case: blue finished aluminum (special finishes to order).

ACCESSORIES: *Cased Units:* To specify cased unit, add suffix "C" to the model no. eg: PWR 15-6C for module with case. Case includes wrap-around, end plate and 4 removable feet for bench use.

RACK ADAPTERS:

RA 8-2: ($5\frac{1}{4}"$ H x $19"$ W) accommodates 2 PWR modules.
 RA 9-3: ($7"$ H x $19"$ W) accommodates 3 PWR modules.
 RA 10-1: ($5\frac{1}{4}"$ H x $19"$ W) accommodates 1 PWR module.
Finish: Frosty etch, clear epoxy coating. (special finishes to order).

CUSTOM OPTIONS: Special models available with custom ratings. Contact your nearest Kepco sales engineer with your special requirements.

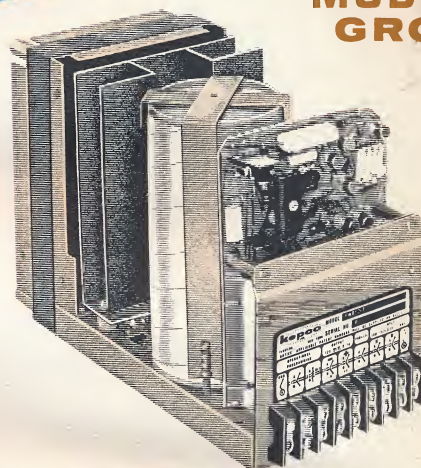


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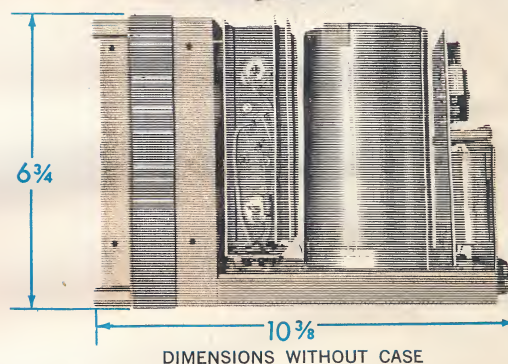
kepco

PWR
 REGULATED DC SUPPLY

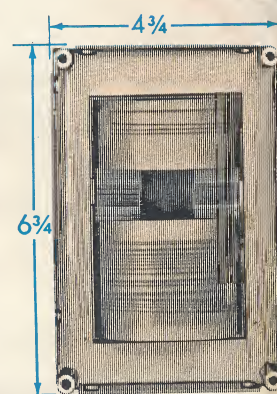
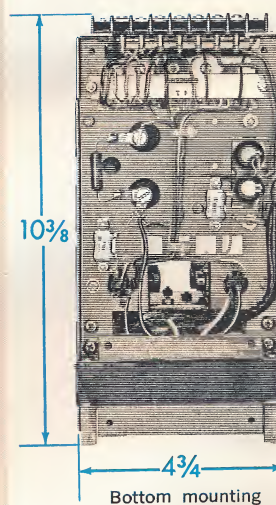
MODULAR
 GROUP



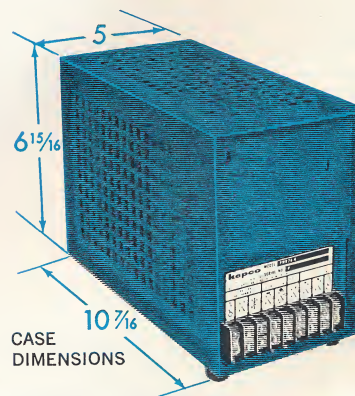
Uncased unit
 Model PWR 12-7



Side
 mounting



End mounting



Data subject to change
 without notice
 PATENT NOTICE: Applicable
 Patent Nos. will be supplied
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